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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/271,502	03/18/1999	TAKASHI HONDA	450100-4811	4228
20999 7590 07/09/2007 FROMMER LAWRENCE & HAUG 745 FIFTH AVENUE- 10TH FL. NEW YORK, NY 10151			EXAMINER CHEVALIER, ROBERT	
			ART UNIT 2621	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.		Applicant(s)	
	09/271,502		HONDA, TAKASHI	
	Examiner		Art Unit	
	Bob Chevalier		2621	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 18 June 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-14, 37-43 and 54-69 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-14, 37-43 and 54-69 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 18 March 1999 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

Response to Arguments

1. Applicant's arguments with respect to claims 1-14, 37-43, 54-69, have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-5, 7-10, 13-14, 37-39, 42-43, 54-55, 57-58, 60-61, 63-64, 66-67, and 69, are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamagami in view of Higuchi et al and MacCormack et al (P.N. 6,144,797) and Loui (P.N. 6,937,273).

Yamagami discloses a recording/reproducing apparatus that shows substantially the same limitations recited in claims 1, 13, 54-55, 57-58, 60-61, 63-64, 66-67, and 69, including the feature of the image pickup means (101 of Fig. 1, page 2, paragraph nos. 0023 and 0024) for generating a picked-up-image signal, the recording/reproducing apparatus (Figs. 1-2) comprising:

first writing means (108 of Fig. 1, page 2, paragraph no. 0025) for writing the picked-up-image signal on a first removable recording medium;

reading means (108 of Fig. 1, page 2, paragraph no. 0026) for reading an image signal from said first recording medium;

second writing means (118 of Fig. 1, page 2, paragraph no. 0030 and page 3, paragraph 0048) for writing the image signal read by said reading means on a second

removable recording medium while said first and second recording media are concurrently connected to the recording/reproducing apparatus incorporating said image pickup means; and

control means (115 of Fig. 1, page 2, paragraph no. 0030 and page 3, paragraph 0048) for controlling recording/reproducing and data transfer between said first and second recording mediums while connected to the recording/reproducing apparatus incorporating said image pickup means.

However, Yamagami fails to specifically disclose the feature of the first signal processing means for compressing/decompressing an image signal to conform to a first predetermined format, the second processing means for compressing the decompressed image data by the first processing means to conform to a second predetermined format, and the feature of reading selected image data from the first recording medium and decompress by the first signal processing means and compressed by the second signal processing means and writing the same on the second recording medium by the second writing means as specified in the present claims 1, 13, 54-55, 57-58, 60-61, 63-64, 66-67, and 69.

Higuchi et al discloses an image signal recording/reproducing apparatus that shows the capability of the first signal processing means (Higuchi et al's Figure 6, component 312) for compressing/decompressing an image signal to conform to a first predetermined format, the second processing means (See Higuchi et al's Figure 6, component 312) for compressing the decompressed image data by the first processing means to conform to a second predetermined format, and the feature of reading

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selected image data from the first recording medium and decompress by the first signal processing means and compressed by the second signal processing means and writing the same on the second recording medium by the second writing means as specified in the present claims 1, 13, 54-55, 57-58, 60-61, 63-64, 66-67, and 69. Applicant's attention is directed to Higuchi et al's Figure 6, where it is disclosed the capability of converting an input image signal to a specified image format, and the capability of recording/reproducing the image signal from a first recording medium to a second recording medium, or from the second recording medium to the first recording medium.

It would have been obvious to one skilled in the art to modify Yamagami's apparatus wherein the recording/reproducing means provided thereof would incorporate the capability of the first signal processing means for compressing/decompressing an image signal to conform to a first predetermined format, the second processing means for compressing the decompressed image data by the first processing means to conform to a second predetermined format, and the feature of reading selected image data from the first recording medium and decompress by the first signal processing means and compressed by the second signal processing means and writing the same on the second recording medium by the second writing means in the same conventional manner as shown by Higuchi et al. The motivation is to record image signals of different recording formats on the recording mediums at any desired time, thereby, making the apparatus more efficient as suggested by Higuchi et al.

The proposed combination of Yamagami and Higuchi et al indicated above fails to disclose the feature of reproducing and displaying the image data recorded on the

first recording medium while allowing the user to select one image data or collective image data recorded on the first recording medium to be transferred to the second recording medium as specified in the present claims 1, 13, 54-55, 57-58, 60-61, 63-64, 66-67, and 69.

MacCormack et al discloses a video recording/reproducing apparatus which includes the capability reproducing and displaying the image data recorded on the first recording medium while allowing the user to select one image data or collective image data recorded on the first recording medium to be transferred to the second recording medium as specified in the present claims 1, 13, 54-55, 57-58, 60-61, 63-64, 66-67, and 69. (See MacCormack et al's claim 2).

It would have been obvious to one skilled in the art to modify the proposed combination of Yamagami and Higuchi et al indicated above wherein the recording/reproducing means provided thereof would incorporate the capability of reproducing and displaying the image data recorded on the first recording medium while allowing the user to select one image data or collective image data recorded on the first recording medium to be transferred to the second recording medium in the same conventional manner as is shown by MacCormack et al. The motivation is to be able to, at the same time, record and reproduce the video signal and on and from the recording medium, thereby, increase the efficiency of the apparatus as suggested by MacCormack et al.

It is further noted that the proposed combination of Yamagami, Higuchi et al, and MacCormack et al indicated above fails to disclose the feature of the writing/reading

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means writing/reading image data including the index of single image, and index of dynamic image data on and from the removable recording medium as specified in the present claims 1, 13, 54-55, 57-58, 60-61, 63-64, 66-67, and 69.

Loui discloses an image recording/reproducing apparatus which includes the capability of recording/reproducing on and from a recording medium image data including the index of single image, and index of dynamic image data as specified in the present claimed invention. (See Loui's claims 1-4).

It would have been obvious to one skilled in the art to modify the proposed combination Yamagami, Higuchi et al, and MacCormack et al indicated above indicated above wherein the writing/reading means provided thereof would incorporate the capability of the writing/reading means writing/reading image data including the index of single image, and index of dynamic image data on and from the removable recording medium in the same conventional manner as shown by Loui. The motivation is to make it easier for the user to access the recorded image information by indexing said image information on the recording medium as suggested by Loui.

Regarding claim 2, Yamagami also discloses the claimed identification-information detecting means (the file name disclosed in page 2, paragraph no. 0028 and page 4, paragraph no. 0061); wherein said control means performs control in accordance with detected identification information (page 4, paragraph no. 0061).

Regarding claim 3, Yamagami discloses the claimed identification-information recording means (the file name disclosed in page 2, paragraph no. 0028) for recording identification information together with the picked-up-image signal on said first recording

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medium when the picked-up-image signal is recorded on said first recording medium as a still image; and

identification-information detecting means (page 4, paragraph no. 0061) for detecting identification information of the image signal read from said first recording medium, wherein said control means controls said second writing means to write the image signal read by said reading means on said second recording medium only when identification information has been detected by said identification-information detecting means (page 4, paragraph #0061).

Regarding claim 4, Yamagami discloses the claimed wherein said control means performs control to cause said reading means to collectively read image signals and said second writing means to collectively write the image signals on said second recording medium (page 2, paragraph no. 0030; page 3, paragraph no. 0048; and page 4, paragraph #0062).

Regarding claim 5, Yamagami discloses the claimed wherein said second writing means is able to write the picked-up-image signal on said second recording medium (page 2, paragraph no. 0030; page 3, paragraph no. 0048; and page 4, paragraph #0062).

Regarding claim 7, the proposed combination of Yamagami, Higuchi et al, MacCormack et al, and Loui, discloses all the claimed limitations as discussed in claim 1 above except for providing the claimed wherein said first recording medium is a tape-shape recording medium.

Yamagami teaches that the storage media such as a floppy disk, a hard disk, an optical disk, an photomagnetic disk, a CD-ROM, a magnetic tape, a nonvolatile memory card, a ROM, or the like can be used (page 2, paragraph no. 0026 and page 4, paragraph no. 0052).

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the tape-shape recording medium as taught by Yamagami into Fig. 1 of Yamagami since it merely amounts to selecting an alternative equivalent recording medium.

Regarding claim 8, the proposed combination of Yamagami, Higuchi et al, MacCormack et al, and Loui, discloses all the claimed limitations as discussed in claim 1 above except for providing the claimed wherein said second recording medium is a disc.

Yamagami teaches that the storage media such as a floppy disk, a hard disk, an optical disk, an photomagnetic disk, a CD-ROM, a magnetic tape, a nonvolatile memory card, a ROM, or the like can be used (page 2, paragraph no. 0026 and page 4, paragraph no. 0052).

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the disc as taught by Yamagami into Fig. 1 of Yamagami since it merely amounts to selecting an alternative equivalent recording medium.

Regarding claim 9, the proposed combination of Yamagami, Higuchi et al, MacCormack et al, and Loui, discloses all the claimed limitations as discussed in claim

1 above except for providing the claimed wherein said second recording medium is a memory card.

Yamagami teaches that the storage media such as a floppy disk, a hard disk, an optical disk, an photomagnetic disk, a CD-ROM, a magnetic tape, a nonvolatile memory card, a ROM, or the like can be used (page 2, paragraph no. 0026 and page 4, paragraph no. 0052).

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the memory card as taught by Yamagami into Fig. 1 of Yamagami since it merely amounts to selecting an alternative equivalent recording medium.

Regarding claim 10, Yamagami discloses the claimed wherein said control means is able to switch the mode between a first mode in which said reading means collectively reads image signals and said second writing means collectively writes the read image signals on said second recording medium and a second mode in which said reading means reads image signals one by one and said second writing means, one by one, writes the read image signals on said second recording medium (page 2, paragraph no. 0030; page 3, paragraph no. 0048; and page 4, paragraph #0062).

Regarding claim 14, Yamagami also disclosed the claimed wherein said converting means converts the image signal read by said first reading means to be adaptable to a Personal Computer Memory Card Internal Association Input/Output (PCMCIA I/O) or PCMCIA AT Attachment Interface (ATA I/F) to supply the converted

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image signal to said second writing means (page 3, paragraph nos. 0037, 0038, and 0039).

Method claims 37-39 are rejected for the same reasons as discussed in apparatus claims 1-2 and 10 above.

Method claims 42-43 are rejected for the same reasons as discussed in apparatus claims 13-14 above.

4. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yamagami (US 2002/0033888 A1) in view of Higuchi et al, MacCormack et al, and Loui, as applied to claims 1 and 5 above, and further in view of Spitzer et al (US 2001/0012067).

The proposed combination of Yamagami, Higuchi et al, MacCormack et al, and Loui, discloses all the claimed limitations as discussed in claims 1 and 5 above and, additionally, Yamagami also discloses that the control means (the host computer 115) can select different modes of reading the images recorded on the first recording medium (page 2, paragraph no. 0030; page 3, paragraph no. 0048; and page 4, paragraph #0062). However, Yamagami does not specifically disclose the claimed feature wherein said recording/reproducing apparatus has an all-pixel reading mode (progressive mode) in which said image pickup means generated a picked-up image signal by reading all pixels and an interlace reading mode in which said image pickup means generates a picked-up-image signal by interlaced-reading.

Spitzer et al teaches a definition television camera, which minimizes the effect of dark current, reflective regions, contamination problems, improves the signal-to-noise

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ratio, and produce a variable frame rate without post-processing, can be operated in either progressive-scan mode or interlace-scan mode (the abstract) for generating a high resolution picture in a progressive format such that it is compatible with the proposed US HDTV standards for the progressive format, for transferring charge from the image region to the storage region during the brief blanking period while producing a high-resolution image (page 2, paragraph nos. 0014, 0015, 0016, 0017, 0018, 0019, and 0020).

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the camera as taught by Spitzer et al into Yamagami's system in order to increase the quality of the video signal by minimizes the effect of dark current, improves the signal-to-noise ratio, and etc..

5. Claims 11-12, 40-41, 56, 59, 62, 65, and 68, are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamagami (US 2002/0033888 A1) in view of Higuchi et al, MacCormack et al, and Loui, as applied to claims 1 and 37 above, and further in view of Hong (US Patent No. 5,257,142).

Regarding claims 11, 56, 59, 62, 65, and 68, the proposed combination of Yamagami, Higuchi et al, MacCormack et al, and Loui, discloses all the claimed limitations as discussed in claim 1 above, except for providing the claimed invention wherein said control means causes said second writing means to interrupt writing an image signal on said second recording medium when said second recording medium is filled to capacity and communicates that said second recording medium has been filled to capacity.

Hong teaches a video cassette recorder having the capability of interrupting the writing of video signal on the recording medium when the recording medium is filled to capacity and communicating that the recording medium has been filled to capacity (col. 4, lines 23-43) to prevent at least a video signal in the television program content from discontinuity or interruption occurring by cassette replacement (col. 1, lines 41-45).

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the capability of interrupting the writing of video signal on the recording medium when the recording medium is filled to capacity as taught by Hong into Yamagami's system in order to prevent at least a video signal from discontinuity or interruption occurring by medium replacement.

Regarding claim 12, Hong also discloses the claimed wherein said control means causes said second writing means to restart writing when said second recording medium has been changed to a state in which writing on said second recording has been interrupted because said second recording medium has been filled to capacity and said changed second recording medium has an empty capacity (col. 4, line 23 to col. 5, line 7).

Method claims 40-41 are rejected for the same reasons as discussed in apparatus claims 11-12 above.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bob Chevalier whose telephone number is 571-272-

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7374. The examiner can normally be reached on MM-F (9:00-6:30), second Monday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thai Tran can be reached on 571-272-7382. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.


ROBERT CHEVALIER
PRIMARY EXAMINER

B. Chevalier
June 23, 2007.